

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows, without prejudice or disclaimer.

Claim 1 (Currently amended) A method for inducing an immune response to a tumor antigen in an animal comprising a priming step wherein a tumor antigen is administered in a first form into a lymphatic site of an animal and a boosting step wherein the tumor antigen is administered in a second form into a lymphatic site of the animal, where the form of the tumor antigen administered in the priming and boosting steps are different and at least one of said forms is administered directly into a lymph node.

Claim 2 (Previously amended) A method according to claim 1 wherein the tumor antigen is selected from the group consisting of CEA, gp100, the MAGE family of proteins, DAGE, GAGE, RAGE, NY-ESO 1, Melan-A/MART 1, TRP-1, TRP-2, tyrosinase, HER-2/neu, MUC-1, p53, KSA, PSA, PSMA, fragments thereof and modified versions thereof.

Claim 3 (Cancelled)

Claim 4 (Previously amended) A method according to claim 1 wherein at least one of said forms is a nucleic acid encoding the tumor antigen and the nucleic acid is selected from the group consisting of viral nucleic acid, bacterial DNA, plasmid DNA, naked DNA, and RNA.

Claim 5 (Original) A method according to claim 4 wherein the viral nucleic acid is selected from the group consisting of adenoviral, alphaviral and poxviral nucleic acid.

Claim 6 (Original) A method according to claim 5 wherein the poxviral nucleic acid selected from the group consisting of avipox, orthopox and suipox nucleic acid.

Claim 7 (Original) A method according to claim 5 wherein the poxviral nucleic acid is selected from the group consisting of vaccinia, fowl pox, canarypox and swinepox nucleic acid.

Claim 8 (Original) A method according to claim 5 wherein the poxviral nucleic acid is selected from the group consisting of MVA, NYVAC, TROVAC, and ALVAC nucleic acid.

Claim 9 (Previously amended) A method according to claim 1 wherein at least one of said forms is a nucleic acid encoding the tumor antigen and the nucleic acid is contained in a vector.

Claim 10 (Original) A method according to claim 9 wherein the vector is a recombinant virus or bacteria.

Claim 11 (Original) A method according to claim 10 wherein the recombinant virus is selected from the group consisting of adenovirus, alphavirus and poxvirus.

Claim 12 (Original) A method according to claim 11 wherein the poxvirus is selected from the group consisting of avipox, orthopox and suipox.

Claim 13 (Original) A method according to claim 11 wherein the poxvirus is selected from the group consisting of vaccinia, fowlpox, canarypox and swinepox.

Claim 14 (Original) A method according to claim 11 wherein the poxvirus is selected from the group consisting of MVA, NYVAC, TROVAC, and ALVAC.

Claim 15 (Previously amended) A method according to claim 1 wherein at least one of said forms is a nucleic acid encoding the tumor antigen and the nucleic acid is contained in a cell.

Claim 16 (Previously amended) A method according to claim 1 wherein at least one of said forms is a nucleic acid encoding the tumor antigen and the nucleic acid is contained in a pharmaceutical composition.

Claim 17 (Previously amended) A method according to claim 1 wherein the tumor antigen is selected from the group consisting of gp100, carcinoembryonic antigen (CEA), a fragment of gp100, a fragment of CEA, a modified version of gp100, and a ~~or~~ modified version of CEA.

Claim 18 (Previously amended) A method according to claim 17 wherein the modified version of gp100 comprises at least the sequence IMDQVPFSY (SEQ ID NO: 1) or the sequence YLEPGPVTV (SEQ ID NO:2).

Claim 19 (Previously amended) A method according to claim 17 wherein the modified version of CEA comprises at least the sequence shown in Figure 8 (SEQ ID NO:112) or the sequence YLSGADLNL (SEQ ID NO:113).

Claim 20 (Currently Amended) A method of claim 1 wherein both the first and second forms are administered directly into the lymph node.

Claim 21 (Original) A method according to claim 1 wherein the first form is a nucleic acid and the second form is a peptide.

Claim 22 (Original) A method according to claim 21 wherein the tumor antigen is selected from the group consisting of CEA, gp100, the MAGE family of proteins, DAGE, GAGE, RAGE, NY-ESO 1, Melan-A/MART 1, TRP-1, TRP-2, tyrosinase, HER-2/neu, MUC-1, p53, KSA, PSA, PSMA, fragments thereof, and modified versions thereof.

Claim 23 (Original) A method according to claim 21 wherein the nucleic acid is selected from the group consisting of viral nucleic acid, bacterial DNA, plasmid DNA, naked DNA, and RNA.

Claim 24 (Original) A method according to claim 23 wherein the viral nucleic acid is selected from the group consisting of adenoviral, alphaviral and poxviral nucleic acid.

Claim 25 (Original) A method according to claim 24 wherein the poxviral nucleic acid selected from the group consisting of avipox, orthopox and suipox nucleic acid.

Claim 26 (Original) A method according to claim 25 wherein the poxviral nucleic acid is selected from the group consisting of vaccinia, fowl pox, canarypox and swinepox nucleic acid.

Claim 27 (Original) A method according to claim 26 wherein the poxviral nucleic acid is selected from the group consisting of MVA, NYVAC, TROVAC, and ALVAC nucleic acid.

Claim 28 (Cancelled)